

POTOMAC Basin: Nitrogen Credit Ledger

| Compliance Year: | 2019 | Credit Forecasts Preliminary Use of Credits | | | | | Credit Exchange (Pounds) | | | | |
|------------------------------|------------------|---|---------------------|-----------------------|---------------------|----------------------|--------------------------|--------|----------------------------------|----------|--------------------|
| Facility Name | Delivered WLA | Expected Load | Expected Credits | In-Bubble Exchange | Private Exchange | WQIF-Held Credits | Expected Net Credits | | Class A Class A* Sales Purchases | | Class B Sales** |
| | | | | | | | | PRICE: | \$ 0.08 | \$ 3.82 | \$ 0.02 |
| The Exchange (group) | 2,612,604 | 1,932,970 | 679,634 | - | (2,924) | (24,365) | 652,345 | | 496,157 | (11,665) | 167,853 |
| ACSA-Fishersville | 4,873 | 1,900 | 2,973 | (2,973) | - | - | - | | - | - | - |
| ACSA-Greenville | 1,424 | 512 | 912 | (479) | - | _ | 433 | | 433 | - | - |
| ACSA-Harriston | 1,025 | 209 | 816 | (816) | - | - | - | | - | - | - |
| ACSA-Middle River | 8,284 | 3,877 | 4,407 | - | - | - | 4,407 | | 4,407 | - | - |
| ACSA-Mt. Sidney | 854 | 1,346 | (492) | 492 | - | - | - | | - | - | - |
| ACSA-Stuarts Draft | 2,436 | 606 | 1,830 | - | - | - | 1,830 | | 1,830 | - | - |
| ACSA-Vesper View | 1,025 | 563 | 462 | (462) | - | _ | - | | - | - | _ |
| ACSA-Weyers Cave | 1,462 | 5,700 | (4,238) | 4,238 | - | _ | - | | - | - | - |
| Alexandria Renew Ent. | 493,381 | 371,223 | 122,158 | - | - | - | 122,158 | | 91,620 | - | 30,538 |
| Arlington Co. | 365,284 | 237,554 | 127,730 | - | (2,625) | - | 125,105 | | 125,105 | - | - |
| Berryville | 5,373 | 3,377 | 1,996 | - | - | - | 1,996 | | 1,900 | - | 96 |
| Broadway Regional | 5,601 | 4,719 | 882 | _ | _ | - | 882 | | - | _ | 882 |
| Fairfax Co-Noman Cole | 612,158 | 470,822 | 141,336 | _ | (25) | _ | 141,311 | | 127,128 | _ | 14,183 |
| FCWSA-Vint Hill | 579 | 244 | 335 | _ | (_5) | _ | 335 | | - | _ | 335 |
| Front Royal | 29,725 | 25,359 | 4,366 | - | _ | - | 4,366 | | 4,000 | - | 366 |
| FWSA-Opequon | 31,681 | 17,183 | 14,498 | _ | - | _ | 14,498 | | - | - | 14,498 |
| FWSA-Parkins Mill | 15,837 | 6,533 | 9,304 | _ | _ | _ | 9,304 | | _ | _ | 9,304 |
| HRRSA-North River | 55,746 | 38,191 | 17,555 | - | _ | <u>-</u> | 17,555 | | 15,000 | - | 2,555 |
| KGCSA-Dahlgren S.D. | 9,137 | 5,025 | 4,112 | (427) | _ | _ | 3,685 | | - | _ | 3,685 |
| KGCSA-Fairview Beach | 1,827 | 731 | 1.096 | (/ | _ | _ | 1,096 | | _ | _ | 1,096 |
| KGCSA-Purkins Corner | 1,096 | 1,523 | (427) | 427 | _ | _ | - ,,,,,, | | _ | _ | |
| Leesburg | 97,458 | 32,898 | 64,560 | - | (274) | (24,365) | 39,921 | | _ | _ | 39,921 |
| Loudoun Water- Broad Run | 119,264 | 48,953 | 70,311 | _ | (=: :) | (= 1,000) | 70,311 | | 57,884 | - | 12,427 |
| Luray | 8,187 | 2,533 | 5,654 | _ | - | - | 5,654 | | 5,654 | - | |
| Massanutten PSC | 6,030 | 2,975 | 3,055 | _ | - | _ | 3,055 | | - 0,004 | _ | 3,055 |
| Merck | 4,824 | 14,473 | (9,649) | _ | - | _ | (9,649) | | _ | (9,649) | - 0,000 |
| MillerCoors LLC | 18,091 | 18,091 | (0,010) | _ | - | - | (0,010) | | - | (0,0.0) | - |
| Mt. Jackson | 2,900 | 2,237 | 663 | - | - | - | 663 | | - | - | 663 |
| Purcellville | 13,157 | 7,894 | 5,263 | _ | - | - | 5,263 | | 2,632 | _ | 2,631 |
| PWCSA-HL Mooney | 219,280 | 178,165 | 41,115 | _ | - | _ | 41,115 | | 28,781 | _ | 12,334 |
| Stafford Co-Aquia | 73,093 | 67,063 | 6,030 | _ | _ | _ | 6,030 | | 4,462 | _ | 1,568 |
| Stoney Creek | 2,891 | 2,814 | 77 | _ | - | - | 77 | | 7,702 | | 77 |
| Strasburg | 5,134 | 6,548 | (1,414) | _ | - | _ | (1,414) | | _ | (2,016) | 602 |
| UOSA | 302,607 | 300,006 | 2,601 | _ | | _ | 2,601 | | _ | (2,010) | 2,601 |
| VA Am. Water PW Sec. 1 | 42,029 | 23,984 | 18,045 | _ | | | 18,045 | | 10,827 | _ | 7,218 |
| VA Am. Water PW Sec. 8 | 42,029 | 23,984 | 18,045 | _ | _ | _ | 18,045 | | 10,827 | | 7,218 |
| Waynesboro | 6,822 | 3,155 | 3,667 | _ | - | _ | 3,667 | | 3,667 | - | 7,210 |
| Purchase by Eastern Shore | 0,022 | 3,133 | 5,00 <i>1</i> | <u>-</u> | <u>-</u> | _ | 5,007 | | 3,007 | | |
| i dichase by Lastelli Silvie | _ | _ | - | - | • | _ | | _ | | | _ |

^{*} For this Compliance Year, 0% of all Class A Credit Purchases are expected to be satisfied using Class B Credits.

^{**} Class A and Class B Credit Sales are estimates only; actual Credits generated—and the resulting sales prices—may vary from estimates based on Delivered Loads in the Compliance Year.

Owner Bubble: Frederick-Winchester Service Authority

The facilities listed below have received an aggregated mass load limit pursuant to 9 VAC 25-820-70, Part 1.B.2., which is also referred to as an "owner bubble". Accordingly, compliance is determined solely on an aggregate basis rather than by comparison of individual facility loads with respective individual WLAs.

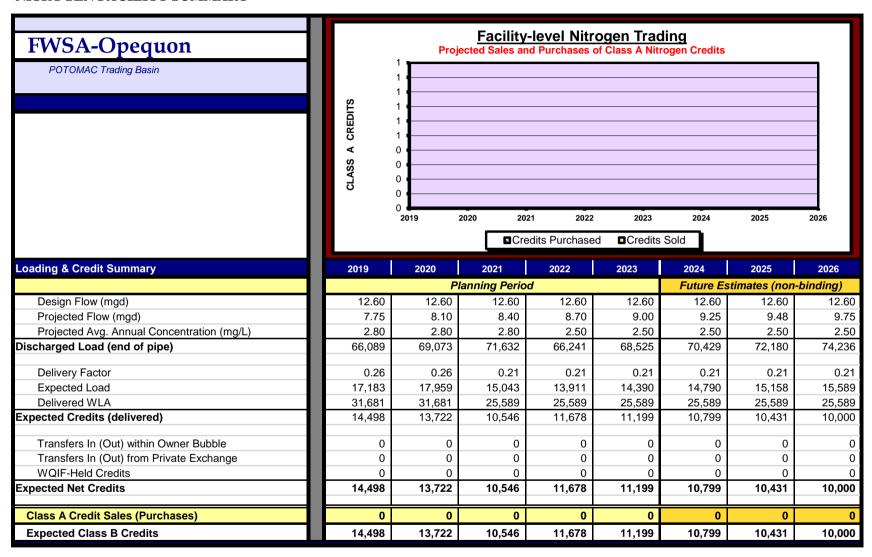
The "Credit Transferred within Bubble" section of each table forecasts the use of Credits within the owner bubble during each Compliance Year, and must necessarily sum to zero. The specific Credit transfers shown in this table are provided for internal planning purposes only and, accordingly, are not binding and may change based on the actual performance of individual facilities within the bubble.

Expected Net Credits for an owner bubble may be either positive or negative. If Expected Net Credits is positive, the owner may pledge a percentage of such Credits to the Exchange. If Expected Net Credits is negative, Net Expected Credits identifies the number of Credits that must be purchased to comply with the aggregate Delivered WLA of the bubble.

| NITROGEN Credits | | Exchange | 5-year Plann | Future Projections | | | | |
|-----------------------------------|--------|----------|--------------|--------------------|--------|--------|--------|--------|
| Credits Transferred within Bubble | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
| Opequon | - | - | - | - | - | - | - | - |
| Parkins Mill | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| TOTAL (must sum to 0) | - | - | - | - | - | - | - | - |
| Credits Available outside Bubble | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
| Opequon | 14,498 | 13,722 | 10,546 | 11,678 | 11,199 | 10,799 | 10,431 | 10,000 |
| Parkins Mill | 9,304 | 8,473 | 6,363 | 5,884 | 5,596 | 5,212 | 5,020 | 4,732 |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| Expected Net Credits | 23,802 | 22,195 | 16,909 | 17,562 | 16,795 | 16,011 | 15,451 | 14,732 |
| | | | | | | | | |
| Class A Sales (Purchases) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Expected Class B Credits | 23,802 | 22,195 | 16,909 | 17,562 | 16,795 | 16,011 | 15,451 | 14,732 |
| WQIF-Held Credits | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| PHOSPHORUS Credits | | Exchange | 5-year Plann | Future Projections | | | | |
|-----------------------------------|-------|----------|--------------|--------------------|-------|-------|-------|-------|
| Credits Transferred within Bubble | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
| Opequon | - | | - | - | - | - | - | - |
| Parkins Mill | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| TOTAL (must sum to 0) | - | - | - | - | - | - | - | - |
| Credits Available outside Bubble | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
| Opequon | 3,031 | 2,887 | 2,405 | 2,298 | 2,190 | 2,101 | 2,019 | 1,922 |
| Parkins Mill | 1,110 | 938 | 708 | 601 | 537 | 451 | 408 | 343 |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - |
| Expected Net Credits | 4,141 | 3,825 | 3,113 | 2,899 | 2,727 | 2,552 | 2,427 | 2,265 |
| | | | | | | | | |
| Class A Sales (Purchases) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Expected Class B Credits | 4,141 | 3,825 | 3,113 | 2,899 | 2,727 | 2,552 | 2,427 | 2,265 |
| WQIF-Held Credits | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

NITROGEN FACILITY SUMMARY



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